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"The embodiments of the invention with regard to which an exclusive right of property or of preference is claimed are defined as follows".

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1. An electric machine, characterized in that it comprises:

- at least one arm (5) capable of rotating about a shaft (4), this shaft having a base (3), at the center of a circular tank (2) filled with water,
- 10 - said arm (5) supporting an assembly comprising a pump (9) and, downstream, a turbine (11) connected to the rotor of a first electrical current generator (12), and
- 15 - said arm (5) being secured with respect to a first grooved wheel (14), itself connected to a second grooved wheel (18) by means of a transmission belt (17),
- the shaft (19) of the second grooved wheel (18)
- 20 being secured with respect to the rotor of a second electrical current generator (20),
- the pump (9) sucking up the water from the tank (2) by means of a pipe (8),

in such a way that, on the one hand, water jet expelled by the pump (9) toward the blades (10) of the turbine (11) drives the first generator (12) via the latter in order to generate electrical current, and, on the other hand, the same water jet brings about the rotation of the arm (5) and, thereby, that of the first grooved wheel (14) and thus, by means of the transmission belt (17), that of the second grooved wheel (18), thus driving the second generator (20) so as to generate electrical current.

35 2. The machine as claimed in claim 1, characterized in that the assembly consisting of the pump (9), of the turbine (10) and of the first electrical current generator (12) may, as required, comprise a second pump

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(7) feeding a reservoir (6) connected to the pump (9), the second pump sucking up the water from the tank (2) by means of a pipe (8A).

- 5     3.    The machine as claimed in claim 1, characterized in that the arm (5)- first grooved wheel (14) assembly is supported by wheels (15) intended for rotating along a circular track (16) formed by the upper surface of the outer wall (2A) of the tank (2).

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4.    The machine as claimed in claim 2, characterized in that, for feeding electrical energy to the pump (9), two conductive metallic rings (21A, 22A) are supported at the upper end of the rotary shaft (4) of the arm  
15    (5), opposite two other respective conductive metallic rings (21B, 22B) carried by a nonconductive horizontal plane (23), itself supported by a structure (24) independent of the machine, said metallic rings (21A, 22A; 21B, 22B) being connected, in particular, by means  
20    of conductive brushes or wipers.

5.    The machine as claimed in claim 4, characterized in that, in order to convey the electrical current supplied by the first generator (12), two more other  
25    conductive metallic rings (27A, 28A) supported by the horizontal plane (23) confront two respective conductive metallic rings (27B, 28B), said metallic rings (27A, 28A; 27B, 28B) being connected, in particular, by means of conductive brushes or wipers.

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6.    The machine as claimed in any one of claims 1 to 5, characterized in that it comprises a certain number of arms (5), each carrying the assembly comprising the pump (9), the turbine (11) and the generator (12), this  
35    assembly being capable of being completed by a secondary pump (7) feeding a reservoir (6) connected to the pump (9) and sucking up the water from the tank (2) by means of a pipe (8A).